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Park**

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(54) **PORTABLE DEVICE AND METHOD FOR  
CONTROLLING THE SAME**

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(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

6,577,496 B1 \* 6/2003 Gioscia ..... G06F 1/1616  
345/156

7,460,108 B2 12/2008 Tamura

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 1 843 563 A1 10/2007

EP 2 341 418 A1 7/2011

(Continued)

**OTHER PUBLICATIONS**

Shen et al., "Double-side Multi-touch Input for Mobile Devices,"  
CHI 2009—Digital Life, New World: Conference Proceedings and  
Extended Abstracts; The 27th Annual Chi Conference on Human  
Factors in Computing Systems, USA, Apr. 4-9, 2009,  
XP007912043, pp. 4339-4344.

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(57) **ABSTRACT**

A method for controlling a portable device including first  
and second display units at opposing surfaces of the portable  
device. The method includes detecting one of a first unlock  
command for switching a state of the first display unit to an  
active state and maintaining a state of the second display unit  
in a locked state or a second unlock command for switching  
the state of the first display unit to the active state and  
switching the state of the second display unit to a ready-to-  
activate state; switching the state of the first display unit to

(Continued)

